

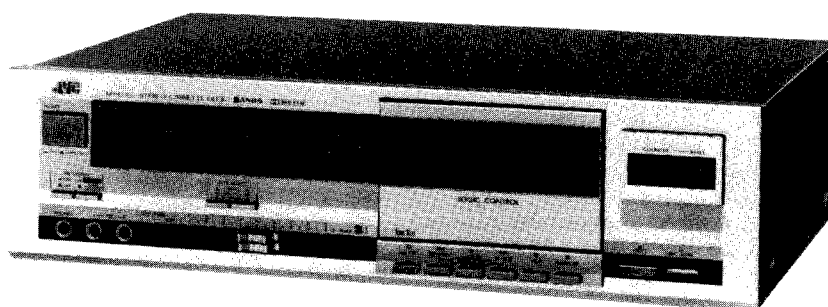
JVC

SERVICE MANUAL

MODEL

KD-D30 A/B/C/E/J/U

STEREO CASSETTE DECK



No. 4209
April, 1982

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Specifications

Type	: Stereo cassette deck
Track system	: 4-track, 2-channel
Tape speed	: 1-7/8 inch/sec (4.8 cm/sec)
Frequency response: (0 dB recording)	
	Metal tape *1;
	30—12,500 Hz (± 3 dB)
	SA/Chrome tape *2;
	30—8,000 Hz (± 3 dB)
	SF/Normal tape *3;
	30—8,000 Hz (± 3 dB)
	(-20 dB recording)
	Metal tape *1;
	20—16,000 Hz
	30—15,000 Hz (± 30 dB)
	SA/Chrome tape *2;
	20—16,000 Hz
	30—15,000 Hz (± 3 dB)
	SF/Normal tape *3;
	20—15,000 Hz
	30—14,000 Hz (± 3 dB)
Note: *1	JVC ME or Equivalent
*2	TDK SA or Equivalent
*3	MAXELL UD or Equivalent
S/N ratio	: 58 dB (S=1 kHz, K3=3%, N=A-Weight, Metal tape) The S/N is improved by about 15 dB at 500 Hz and by max, 20 dB at 1 kHz—10 kHz with DOLBY C NR on and improved by 5 dB at 1 kHz and by 10 dB at above 5 kHz with ANRS/DOLBY B NR on.
Improvement of MOL	: 4 dB at 10 kHz with DOLBY C NR on.
Wow and flutter	: 0.05% (WRMS), 0.16% (DIN 45 500)
Crosstalk	: 60 dB (1 kHz)
Harmonic distortion	: K3; 0.5% THD; 1.0% (Metal tape, 1 kHz 0 VU)
Heads	: METAPERM head for recor- ding/playback, 2-gap ferrite head for erasure.
Motor	: Electronic governed DC motor
Fast forward time	: Approx 100 sec. with C-60 cassette
Rewind time	: Approx 100 sec. with C-60 cassette

Input terminals		
Mic jack × 2	:	Max. sensitivity; 0.2 mV (− 74 dBV) Matching impedance; 600 Ω—10 kΩ
Input jack × 2	:	Min. input level; 80 mV Input impedance; 100 kΩ
Output terminals		
Output jack × 2	:	Output level; 300 mV Output impedance; 5 kΩ
Phones jack × 1	:	Output level 0.3 mW/8 Ω Matching impedance; 8—1 kΩ
Power requirement	:	AC 240/220/120 V, 50/60 Hz (KD-D30 A/B/C/E/J) AC 240/220/120/100 V 50/60 Hz (KD-D30U)
Power consumption	:	With power on 17 W With power switch off 1.3 W
Dimensions	:	17-1/8" (435 mm) W 4-9/16" (116 mm) H 10-13/16" (275 mm) D
Weight	:	11.2 lbs (5.1 kg)
Accessories	:	Pin plug cord 2

Design and specifications are subject to change without notice.

Features

- DOLBY* C NR system.
- Music Scan mechanism
"Under license of Staar S.A., Brussels Belgium"
- Metal tape compatible.
- 2-color LED peak level indicator.
- TIMER START facility.
- Full auto-stop mechanism.
- Tape running indicator.
- Geared and oil-damped cassette door.
- Automatic input select.
- REC MUTE (record muting) mechanism.

*"Dolby" and the double-D symbol are trademark of Dolby Laboratories Licensing Corporation.

Controls and Connections

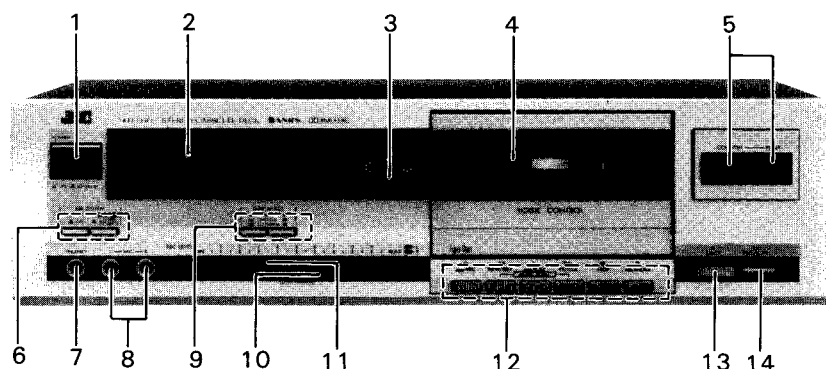


Fig. 1

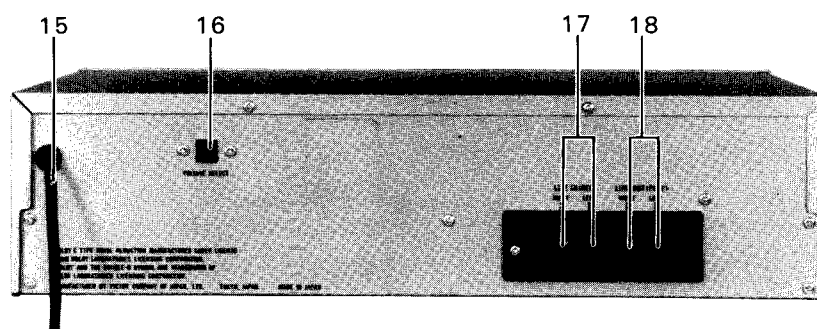


Fig. 2

- | | |
|---|-------------------------------------|
| 1. POWER switch | 12. Cassette operation buttons |
| 2. MULTI PEAK INDICATOR | ○ REC (Record) button |
| 3. Tape running indicator | ◀◀ REW/REV (Rewind/Review) button |
| 4. Cassette holder | ▶▶ PLAY button |
| 5. Tape COUNTER/counter RESET button | ▶▶ FF/CUE (Fast forward/cue) button |
| 6. NR SYSTEM switches [OFF, $\frac{\text{ANRS}}{\text{DOLBY B}}$, DOLBY C] | ■ STOP button |
| 7. Headphone jack [PHONES] | PAUSE button |
| 8. Microphone jacks [MIC-L, MIC-R] | 13. EJECT button |
| 9. TAPE SELECT switches [METAL, SA/CrO ₂ , SF/NORM] | 14. REC MUTE button |
| 10. REC LEVEL control (right) | 15. Power cord |
| 11. REC LEVEL control (left) | 16. Voltage select switch |
| | 17. LINE IN (REC) terminals |
| | 18. LINE OUT (PLAY) terminals |

Main Parts Location

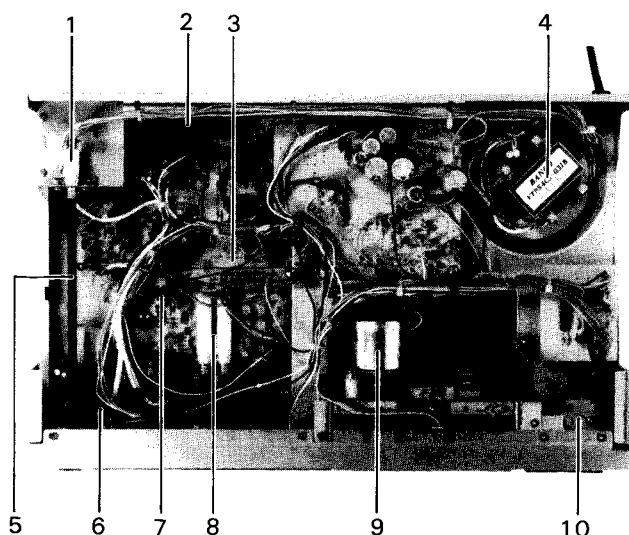


Fig. 3

1. Power switch
2. Pin jacks ass'y
3. Recording switch
4. Power transformer
5. Remote bar for power transformer
6. Microphone jacks
7. Main P.W. board ass'y
8. Tape select switches
9. Motor
10. Hall IC. P.W. board

Description of New Technology

Dolby C-type Noise Reduction System

— A newly developed IC is used to reduce noise and expand the MOL (maximum output level) dramatically. —

The Dolby C-type closely resembles the B-type in operation, the system compatible with ANRS, yet offers even better performance and more distinctive features. Namely:

- Noise reduction is greater — 20 dB from 1 kHz to 10 kHz and as much as 15 dB at 500 Hz.
- At 10 kHz it improves MOL by 4 dB when recorded at 0 VU.
- It is immune to undesirable side effects such as modulation noise and breathing.

Dolby C noise reduction solves the problem of achieving a large amount of compression and expansion without introducing undesirable side effects by the use of two processing stages in series, each supplying 10 dB of compression during recording and of expansion during playback. These circuits operate at independent levels. One, identified as the high-level stage in Figure B, is sensitive to signals at about the same levels as Dolby B-type noise reduction, while the other, the low-level stage, operates on signals of somewhat lower level. Because the two stages operate in tandem with each other, their effect is to multiply the signals (or add and subtract in dB's), so that a total of 20 dB of compression and expansion, and thus of noise reduction, is accomplished. Yet simultaneously, at no time is the signal subject to the vagaries of a single compression or expansion action of 20 dB. In other words, the tandem two-level, two-stage configuration provides a much more accurate control of the signal than a single compander circuit would be able to achieve.

Since a single newly developed IC is used for Dolby C noise reduction in this unit, compared with the Dolby B ICs two normally used, better characteristics are achieved.

1. Recording/playback mode and NR mode (OFF/Dolby B/Dolby C) selection is electronic.
2. The circuit does not need adjustment.
3. The over-shoot and limiter level specified for Dolby B and C are adopted to give better transient characteristics.

4. Phase distortion is improved by use of a full-wave rectifying circuit.
5. Almost totally integrated with few external components.
6. With all signal processing performed in a single chip, characteristics in recording and playback are identical.
7. Since the same elements are used for spectral skewing and in the anti-saturation network in both recording and playback, the characteristics are the same.
8. Multiplex buffer amplifier built-in.
9. External semi-fixed resistor allows setting of monitor output level to required level.
10. Since the performance of the unit is not affected by the side chain when noise reduction is switched off, distortion and frequency response do not deteriorate.
11. It can be used as two Dolby B noise reduction circuits.

Other developments

In addition to two-level processing, Dolby C-type noise reduction incorporates a number of further innovations. Two of these, shown in Figure B as anti-saturation and spectral skewing networks, are carefully calculated frequency response modifications introduced in the encoding (record) process and reciprocally compensated for in the decode (playback) process. Their purpose is two-fold: to further guard against audible side effects, and to ensure the practicality of the system in day-to-day consumer use. The specific benefits of these innovations include the reduction of encode-decode errors and a reduction of upper-middle and high frequency tape saturation and its side effects, such as high frequency losses and inter-modulation distortion. Together with the two-level, two-stage configuration, these new developments result in a 20 dB noise reduction system at least as free of side effects as the 10 dB B-type system, and one which is just as practical in day-to-day use.

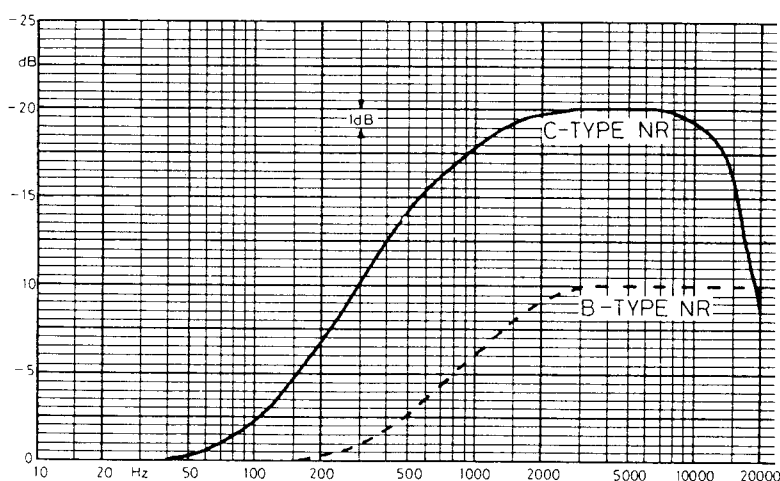


Fig. 4-A Low-level encoding frequency response

These curves, showing the maximum low-level boost imparted by both C-type and B-type noise reduction in the absence of high frequency signals, illustrate some of the similarities and differences between the two systems. Dolby C noise reduction imparts more boost in recording and more cut in playback, thus providing more noise reduc-

tion. The effect also extends about two octaves lower with C-type noise reduction to maintain subjectively uniform noise level across the spectrum. Processing at very low frequencies is not required with either system because low frequency noise is insignificant in properly engineered cassette recorders.

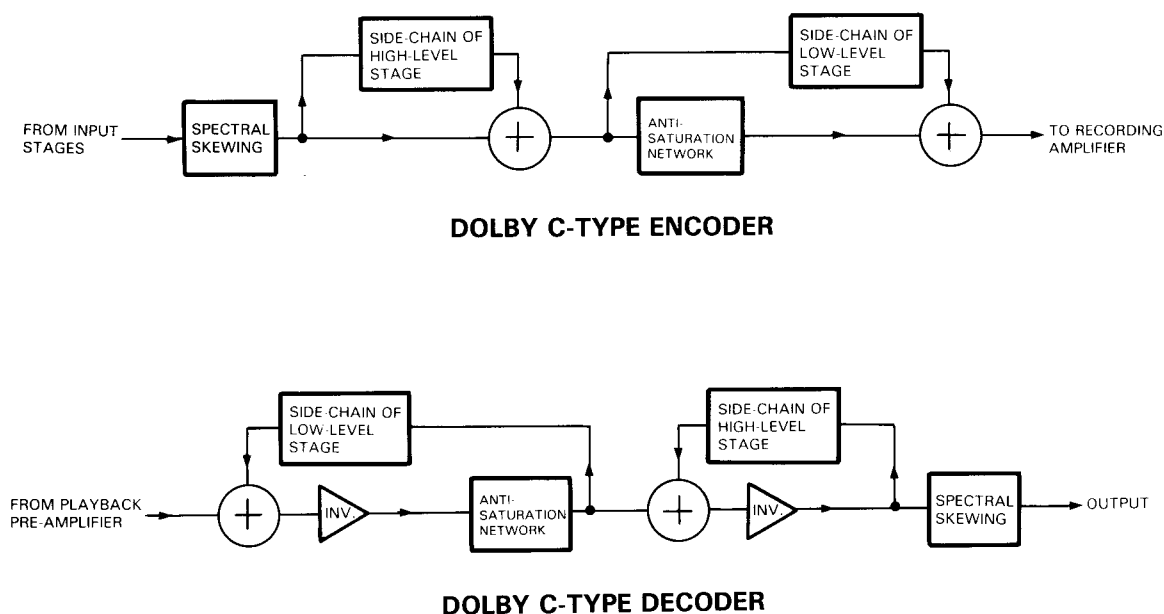


Fig. 4-B Dolby C-type NR block diagram

Safety Precautions

⚠ Safety mark

Safety is very important with this unit. When replacing the parts marked ⚠, be sure to use only those designated parts. The designated resistors, diodes, transistors become hot in use. When replacing, be sure to secure them with a distance of more than 5 mm from the circuit board. In addition, they are banded together to avoid touching other wiring, recheck this point as well after repair. The wiring of the primary side should be wound more than one and half times, then soldered.

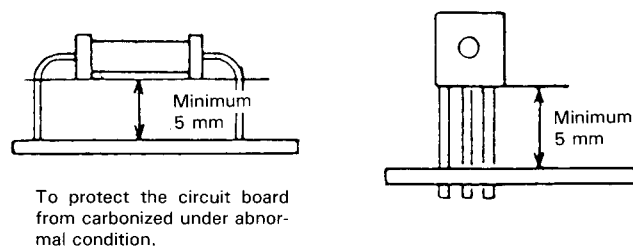


Fig. 5

Removal of the Main Parts

Observe care in handling the parts since the parts are small in size and the distance between them are short due to a deck design aimed mainly at compactness and high performance.

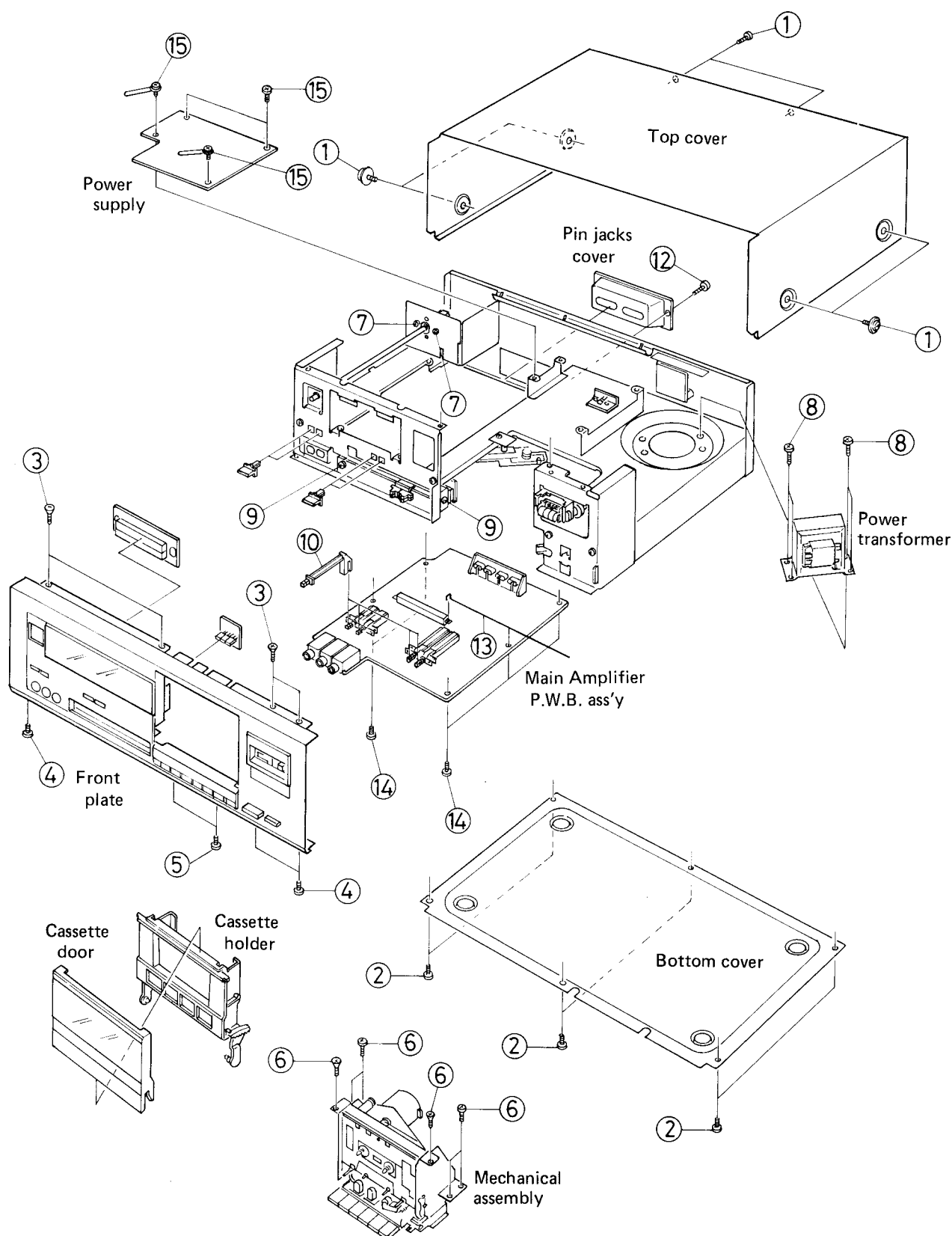


Fig. 6

Enclosure assembly parts

1. Cassette door
Push the EJECT button to open the cassette door. Slide off the cassette door upwards to unlock its pawls off both sides.
2. Top cover
Remove 6 screws (1). (left, right and rear 2 screws on each.)
3. Bottom cover
Remove 6 screws (2).
4. Front plate assembly
Remove 6 screws (4 screws (3) on upper side and 2 screws (4) on bottom side).
5. Cassette holder
Remove 2 screws (5) fastening the door bracket ass'y.

Mechanical assembly

Remove 6 screws (6) fastening the mechanical ass'y (2 screws on the front bracket, and 4 screws on the chassis.)

Mechanical parts

The removal methods of mechanical parts are the same as model KD-D20. Please refer to service manual of KD-D20 (No. 4208 page 6).

Electrical parts

When removing wire clamp (QHX2075-001), cut off it and when clamping wires, use new parts.

1. Power switch
Remove 2 screws (7) fastening the power switch.
2. Power transformer
Remove 4 screws (8) fastening the power transformer.
3. Slide knobs (Recording level control)
Remove 2 screws (9) fastening the blind.
4. Main amplifier P.W. board ass'y
 - 1) Pull off 4 knob holders (10) of tape select switches and NR system switch.
 - 2) Remove a screw (12) fastening PIN jacks cover.
 - 3) Remove the recording switch wire (13)
 - 4) Remove 5 screws (14) fastening the main amplifier P.W. board.
 - 5) Slide down the rear side of main amp. P.W. board and pull off it to rear side.
5. Power supply P.W. board ass'y
Remove 4 screws (15) fastening the power supply P.W. board

Dimensions

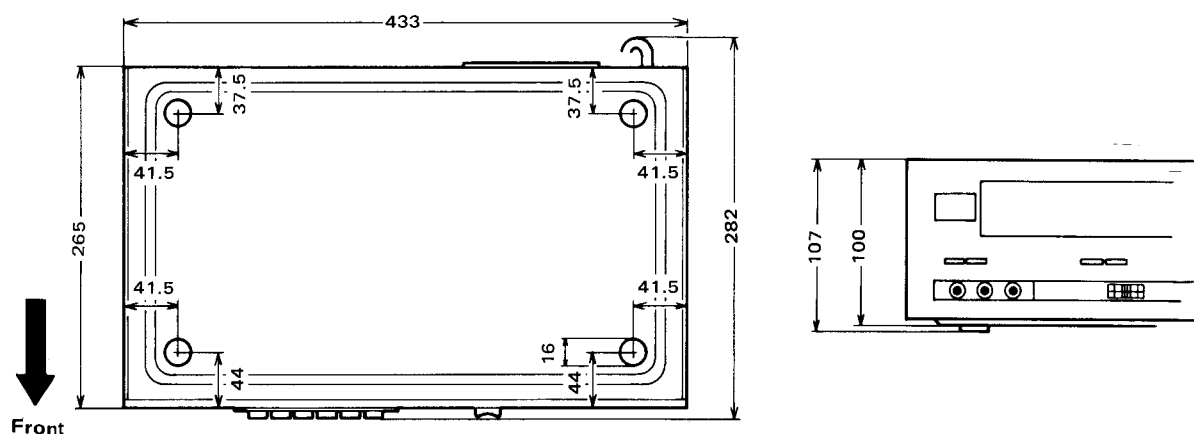


Fig. 7

Main Adjustments

[I] Equipment and measuring instruments used for adjustment

1. Electrical adjustment

- 1) Electronic voltmeter
- 2) Audio frequency oscillator (range: 50—20 kHz and output 0 dB with impedance 600 Ω)
- 3) Attenuator
- 4) Standard tapes for REC/PB

Maxell UD — SF tape	}	or equivalent
TDK SA — SA tape		
JVC ME — Metal tape		
- 5) Reference tapes for playback (JVC Test Tape)
 - VTT-658 (for head azimuth adj.)
 - VTT-656 (for motor speed, wow flutter adj.)
 - VTT-664 (for Reference Level 1 kHz)
 - VTT-675N (for playback frequency response)
- 6) Resistor 600 Ω (for attenuator matching)

2. Mechanical adjustment

- 1) Torque testing cassette gauge, CTG-N.
- 2) Blank tape (C-120) for tape running checker.

[II] Mechanical adjustment

This adjustment is the same as those of the service manual for PC-3 JW/W/WH/C (No. 1469) or PC-3L/LB (No. 1470).

Please refer to the service manual of PC-3 JW/W/WH/C (No. 1469, page 17) or PC-3L/LB (No. 1470 page 17).

[III] Electrical adjustments location

Main Amp. P.W. Board (parts ass'y side view)

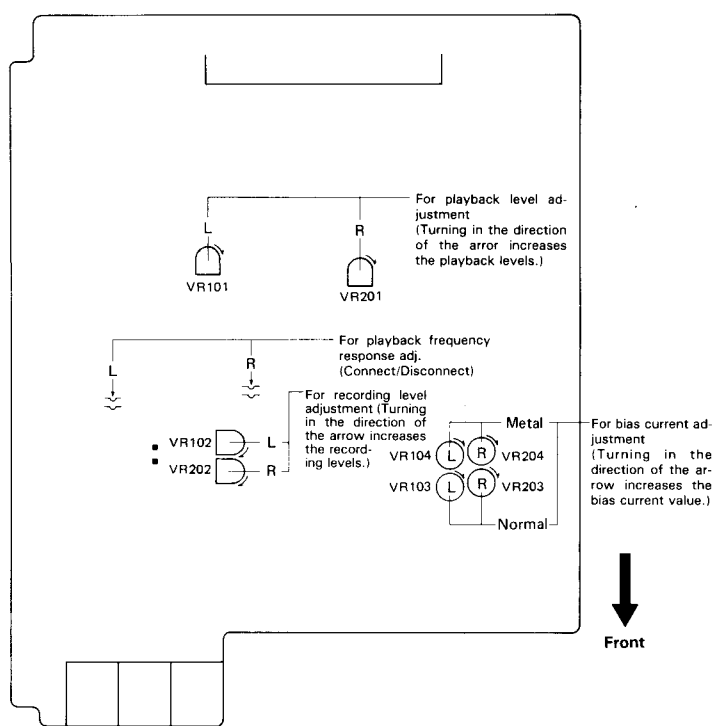


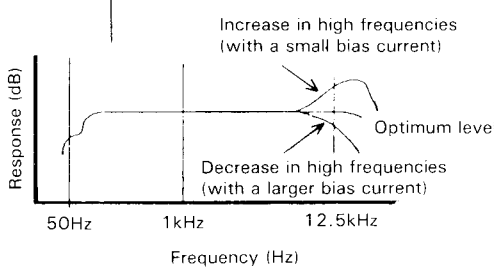
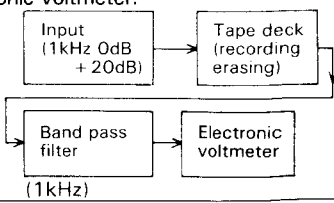
Fig. 8

[IV] Electrical circuit adjustment procedure

In the steps marked by an asterisk (*), adjustment should be performed, however, only checking is sufficient with steps other than those.

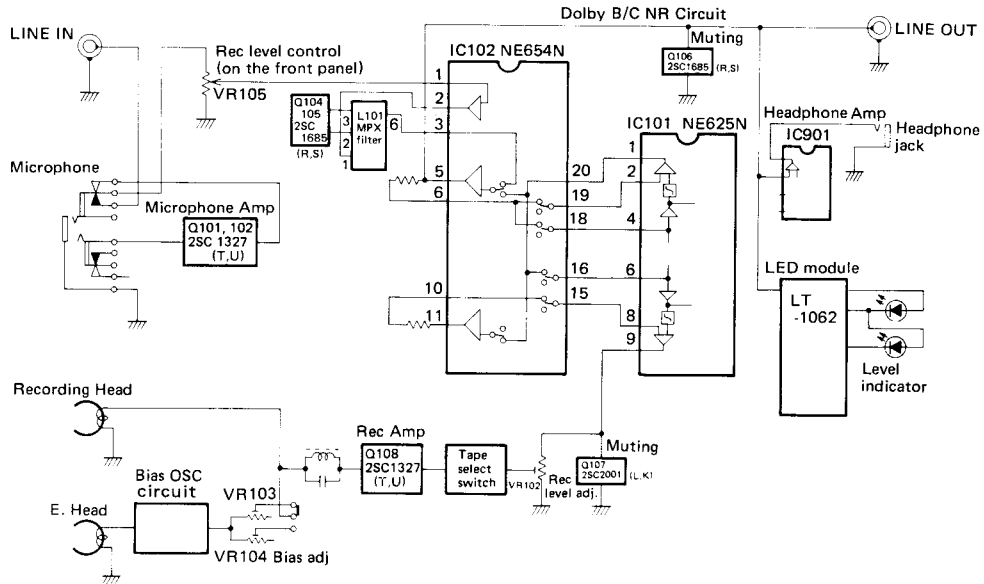
Adjustment should be performed in the order of steps 1, 2, 3,..... Perform this adjustment with the NR SYSTEM switch set to OFF.

Step	Item	Adjustment	Adjusting point	Standard value	Remarks
1 *	Playback frequency response	Play back test tape VTT-675N (1 kHz, 10 kHz) for following adjustment. 1. Connect/Disconnect C102 or C103 so that 10 kHz signal and 1 kHz signal gains become flat response.	C102 C103	Reference frequency: 1 kHz 0 \pm 2 dB at 10 kHz	NR SYSTEM: OFF TAPE SELECT: SF/NORM
2 *	Adjusting playback level	1. Play back the VTT-664 Reference tape (1 kHz) with the tape select switch set to the SF/NORM position. 2. Adjust VR101 and VR201 until the LINE OUT becomes about -8 dBs.	VR101 201	-8 dBs	This adjustment becomes necessary when a change in playback level results (for example, due to head replacement).

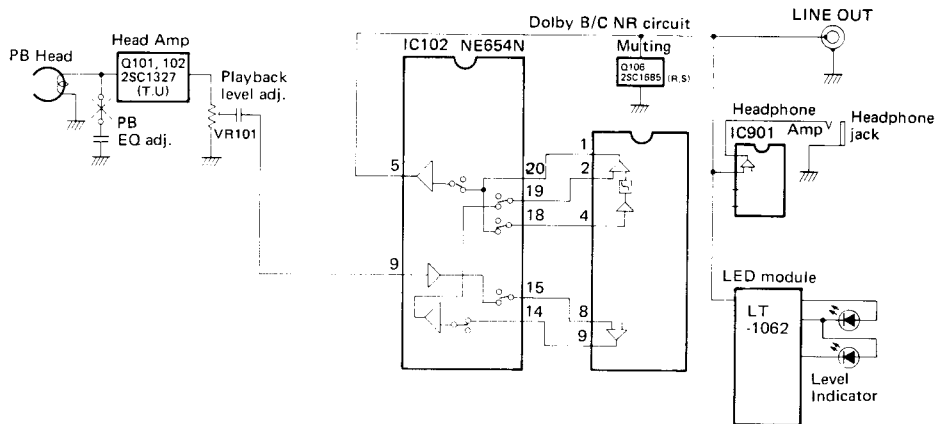
Step	Item	Adjustment	Adjusting point	Standard value	Remarks
3*	Checking record/playback frequency response	<p>Record 1 kHz, 50 Hz and 12.5 kHz signals at an input level of 0 dB to -20 dB. Play back the tape.</p> <p>Check to see that the 50 Hz and 12.5 kHz signal output deviations fall within the standard range, using the 1 kHz signal output as a reference.</p> 	<p>For SF/NORM tape; VR103 203</p> <p>For Metal tape; VR104 204</p>	<p>Reference frequency; 1 kHz</p> <p>0 ± 3 dB at 50 Hz</p> <p>0 ± 4 dB at 12.5 kHz</p>	<p>This checking should be performed for normal tape and for both right and left channels.</p> <ol style="list-style-type: none"> 1. Bias current adjustment for a cassette deck should generally be performed referring to the record/playback frequency response. This is because the frequency response of a cassette deck depends more greatly upon the bias current than does that of an open reel deck. 2. If the bias current is not properly adjusted, the record and playback characteristics become as shown left.
4	Adjusting recording level	<ol style="list-style-type: none"> 1. Apply a 1 kHz, approx. -10 dB signal to the LINE IN terminals. Adjust the recording level controls until the signal is available at -8 dBs at the LINE OUT terminals. 2. After checking to see if the Peak level indicator become 0, record the signal applied to both left and right channels using normal tape. 3. Play back the recording part. Perform the recording signal adjustment with VR102 and VR202 so that the peak level indicator become 0. 	VR102 202	0 VU	The level difference between left and right channels for SF/NORM tape and metal tape should be less than 1 dB. Perform the adjustment using a normal tape, level difference between recording and playback for metal tape, should be less than 1.5 dB, and that between left and right channels should also be less than 1 dB.
5	Checking record/playback signal distortion	<ol style="list-style-type: none"> 1. Record a 1 kHz, -8 dBs signal to LINE IN terminals and perform recording with the peak level indicator become 0. 2. Play back the recorded part. Check the output with a distortion meter to see if the value conforms to the standard value. 		<p>SF/NORM tape; Less than 2.5%</p> <p>SA/CrO₂ tape; Less than 3%</p> <p>Metal tape; Less than 2%</p>	Be sure to perform this adjustment following bias current and recording level adjustments.
6	Checking signal to noise ratio in recording/playback	<ol style="list-style-type: none"> 1. Record a 1 kHz, 0 dB signal. Stop the input by disconnecting from the terminal to perform nonsignal recording. 2. Play back the recorded part. Measure the 0 dB recording output and the non-signal recording output for comparison using an electronic voltmeter. Check to see if the value conforms to the standard value. 		SF/NORM, and Metal tapes; More than 42 dB	
7	Checking erasing coefficient	<ol style="list-style-type: none"> 3. Apply a 1 kHz signal to the LINE IN terminals. Adjust the recording level controls until the peak level indicator become 0. 2. Perform recording with the signal enhanced by 20 dB. 3. Erase a part of the recording. 4. Measure the output difference between the erased part and nonerased part to compare with an electronic voltmeter. 		More than 65 dB	<p>For the measuring, connect a band pass filter between the deck and the electronic voltmeter.</p> 
8.	Check Auto stop	Hold less than $1 + 0$ -0.5 mm gap to the magnet from the hall IC.			

Block Diagram

Recording System



Playback System



Power Supply and Mecha. Control Circuit

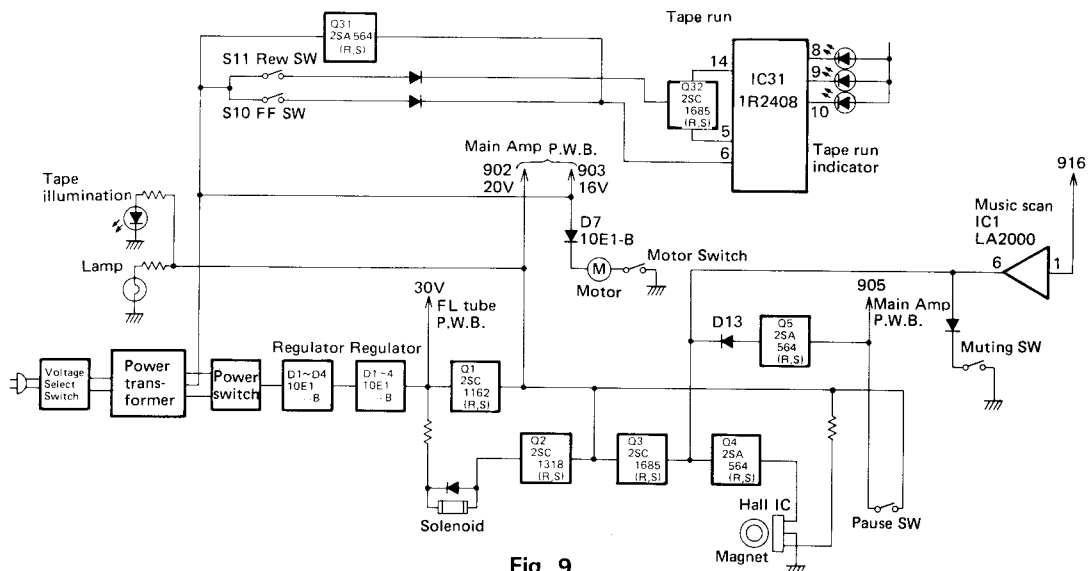


Fig. 9

Wiring Connections

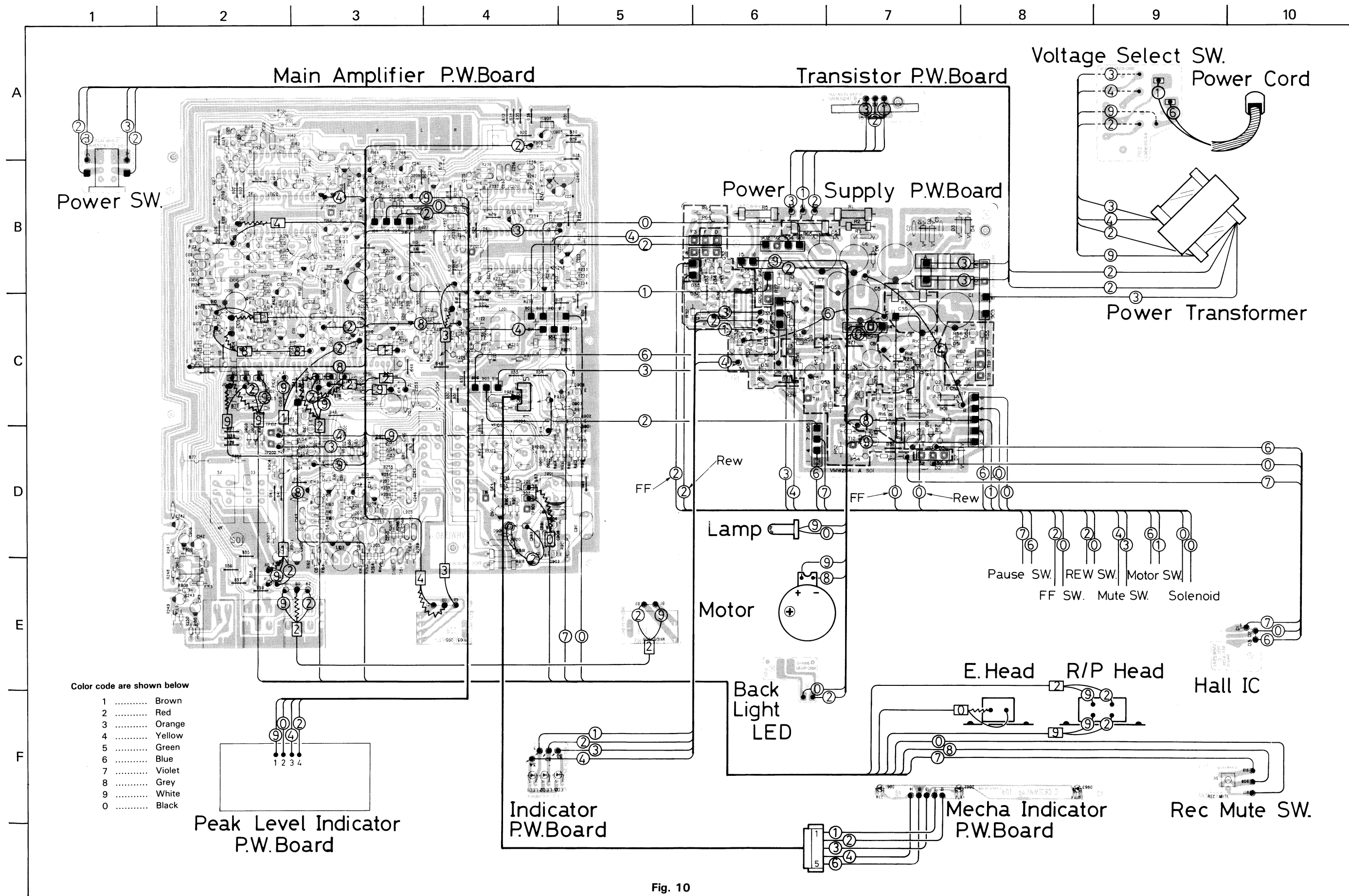


Fig. 10

Main Amp. P.W. Board Parts

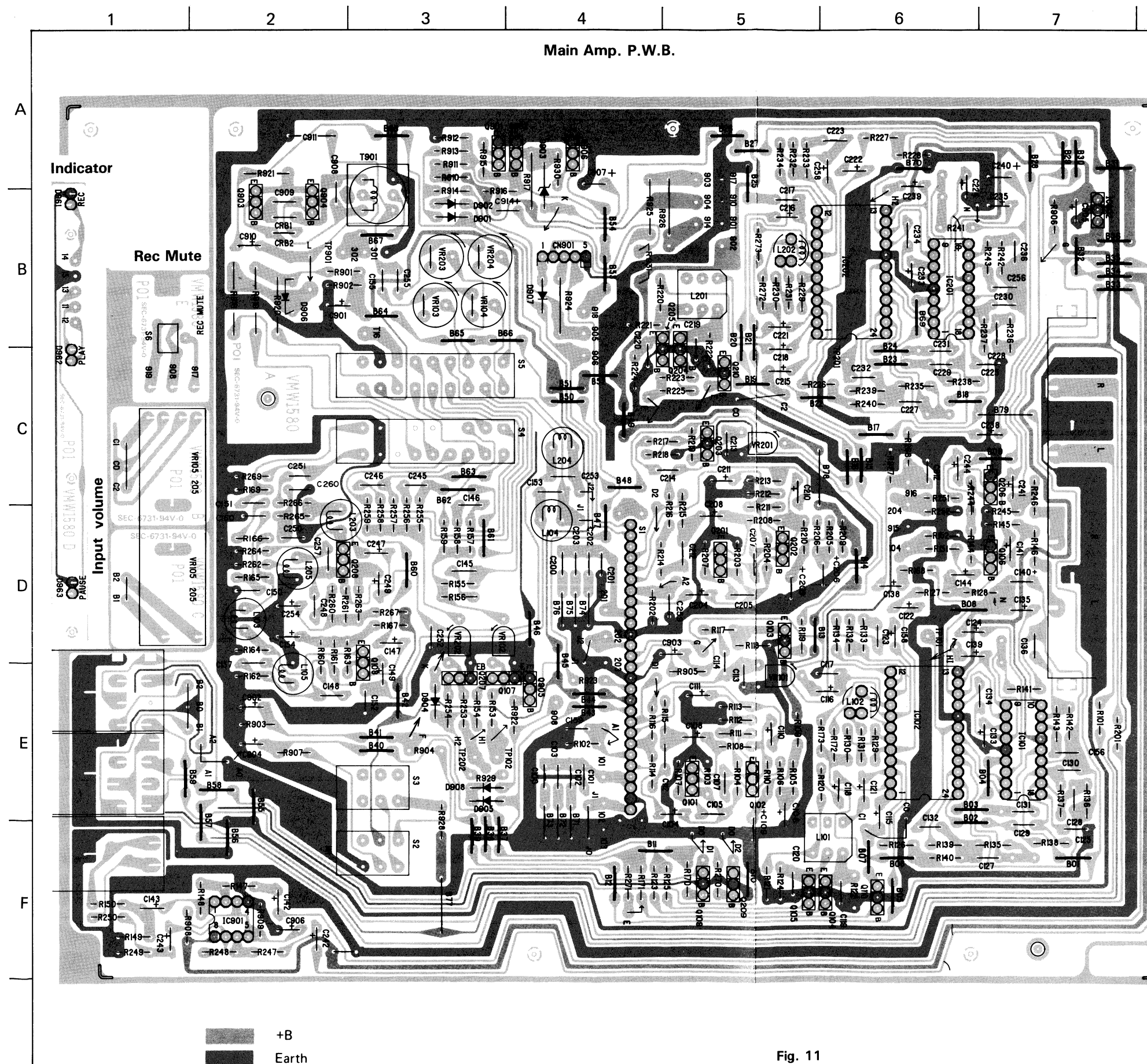


Fig. 11

Main Amplifier P.W.B.

	E. Voltmeter			C. Tester (20kΩ/V)		
	B	C	E	B	C	E
Q101 2SC1327(T,U)	0.55	1.9	0	0.18	1.7	0
Q102 2SC1327(T,U)	1.9	7.3	1.3	1.6	7.0	1.3
Q103 2SC1685(R,S)	0.63	0	0	0.6	0	0
Q106 2SC1685(R,S)	0	0	0	0	0	0
Q107 2SC2001(L,K)	0	0	0	0	0	0
Q108 2SC1327(T,U)	1.1	5.5	0.53	0.2	4.9	0.5
Q109 2SC1685(R,S)	0	0	0	0	0	0
Q110 2SC1685(R,S)	0	0	0	0	0	0
Q901 2SC1685(R,S)	0.25	0.68	0	0.2	0.66	0
Q902 2SC1685(R,S)	0.68	0.06	0	0.66	0.06	0
Q903 2SC2274(E,F)	0.55	16.4	0.94	0.5	16.5	0.92
Q904 2SC2274(E,F)	0.08	16.4	0.94	0.08	16.5	0.91
Q905 2SC1685(R,S)	0	1.8	0	0	1.8	0

Power Supply P.W.B.

	E. Voltmeter			C. Tester (20kΩ/V)		
	B	C	E	B	C	E
Q1	18.5	24.5	17.8	18.5	24.5	18.0
Q2	0.76	26.0	0.7	0.7	26.0	0.7
Q3	1.4	0.76	0.7	1.4	0.8	0.7
Q4	17.4	1.7	17.8	17.0	1.6	17.5
Q5	15.8	16.5	16.5	16.0	16.5	16.5
Q31	10.1	11.0	10.8	10.0	11.0	11.0
Q32	0.14	10.0	—	0	10.0	6.0

at pause mode

Pin	IC101 NE652N		IC102 NE654N		IC901 AN6552		IC902 UPC78L15	
	E. Voltmeter	C. Tester	E. Voltmeter	C. Tester	E. Voltmeter	C. Tester	E. Voltmeter	C. Tester
1	7.5	7.4	7.4	5.1	8.8	8.7	15.0	15.0
2	7.5	7.4	7.5	7.4	8.9	6.2	0	0
3	7.5	7.4	7.5	7.1	8.9	8.0	17.8	18.0
4	7.5	6.0	0.5	0.4	0	0		
5	0	0	7.4	7.4	8.9	8.0		
6	7.5	5.4	7.5	7.2	8.9	6.0		
7	7.5	7.3	6.8	1.2	8.8	8.7		
8	7.5	7.4	6.9	1.2	17.8	18.0		
9	7.5	7.4	7.4	5.6				
10	7.5	7.4	7.5	7.3				
11	7.4	7.0	7.5	7.4				
12	7.1	6.5	15.0	9.6				
13	15.0	15.0	15.0	15.0				
14	0.4	0.4	7.5	7.4				
15	7.5	7.4	7.5	7.4				
16	7.2	6.6	7.5	7.4				
17	7.5	7.1	0	0				
18	7.5	7.4	7.5	7.4				
19			7.5	7.4				
20			7.5	7.4				
21			7.5	7.4				
22			7.5	7.4				
23			7.5	7.4				
24			7.5	7.4				

Pin	IC31 IR2408		IC1 LA2000	
	E. Voltmeter	C. Tester	E. Voltmeter	C. Tester
1	—	7.0	2.0	1.2
2	0	0	0	0
3	0	0	2.0	2.0
4	9.2	9.2	0	0
5	10.0	10.0	0	0
6	10.8	12.0	0	0
7	0	0	1.0	0
8	—	—	0	0
9	—	—	7.0	6.9
10	—	—		
11	0	0		
12	0	0		
13	0	0		
14	—	7.4		

Voltage values are measured by the following meter without input signal at NR SW = OFF, recording mode.

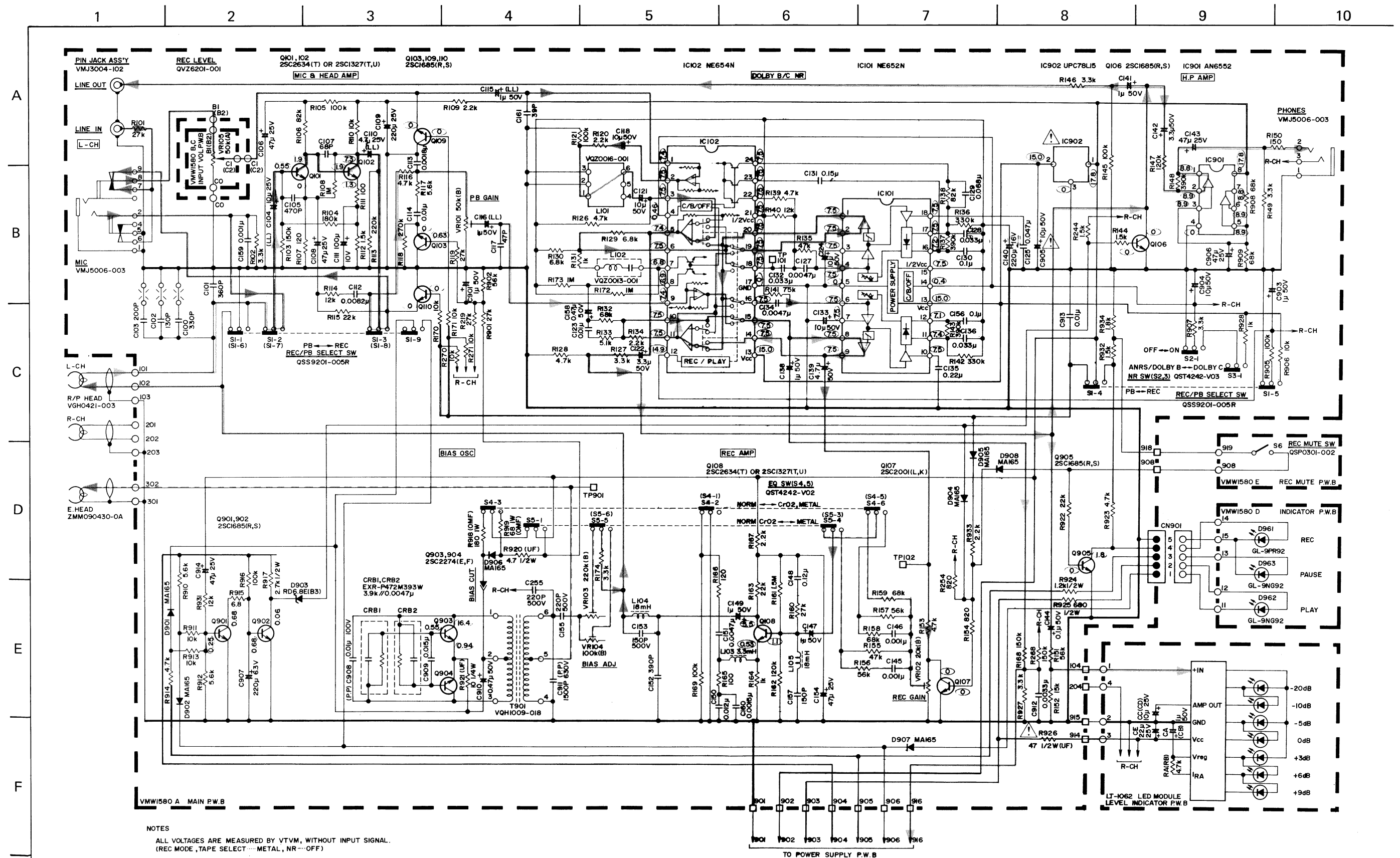
E. Voltmeter = Electronic Voltmeter

C. Tester = Circuit Tester (20kΩ/V impedance)

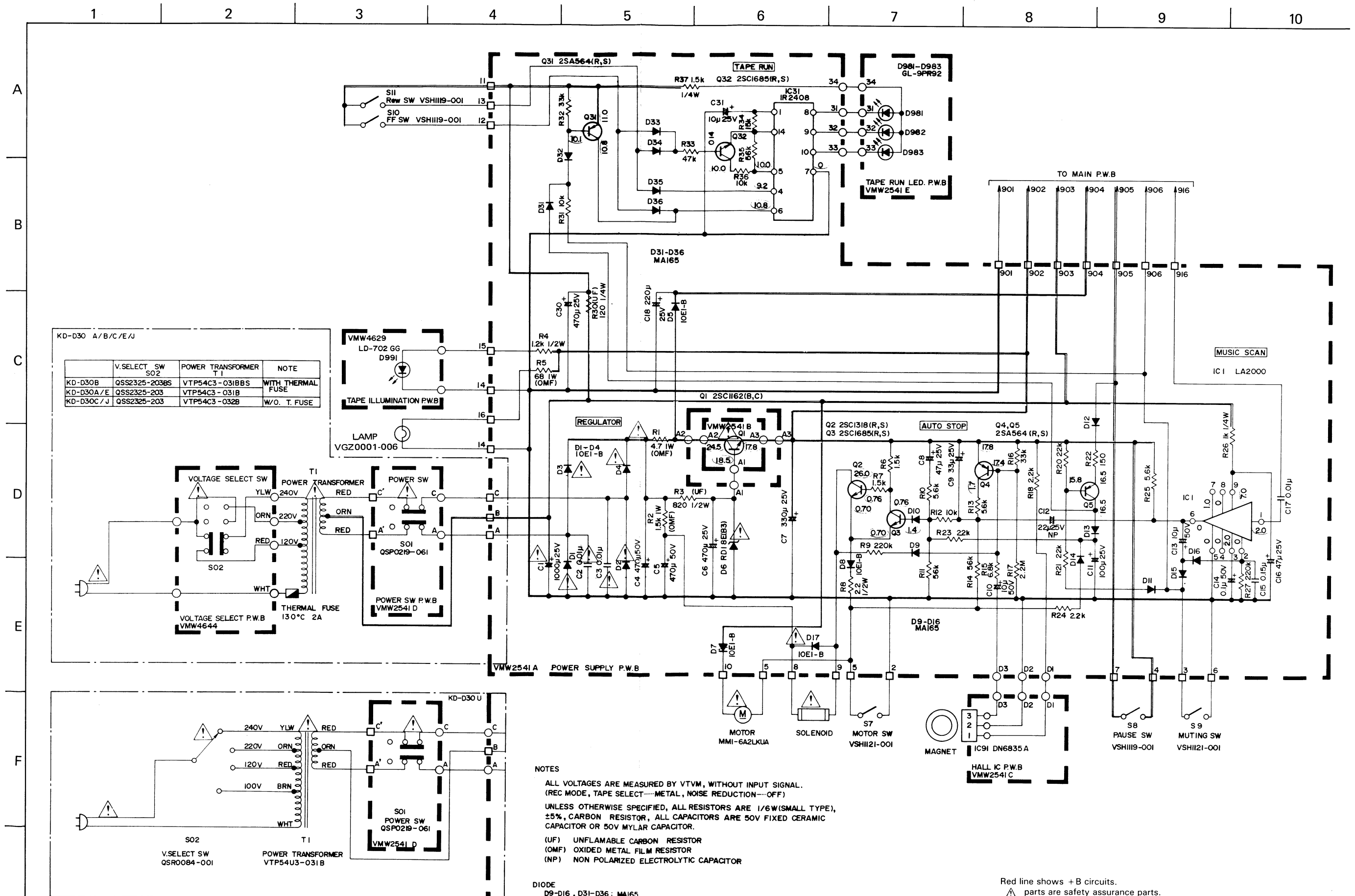
(less than 10V — 10V range)

10V or more — 50V range

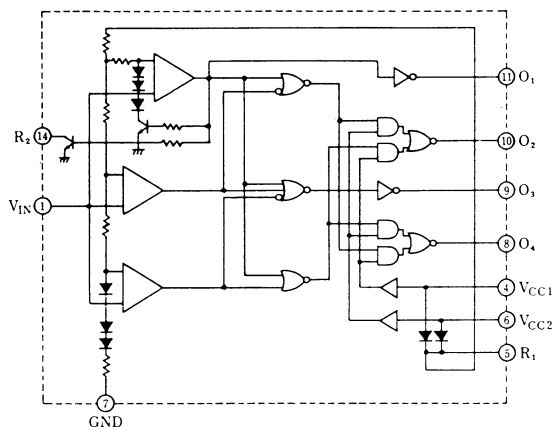
Standard Schematic Diagram of KD-D30 (Main Amplifier Circuit)



Standard Schematic Diagram of KD-D30 (Mecha. Control Circuit)



Top View



Power Supply P.W. Board Parts

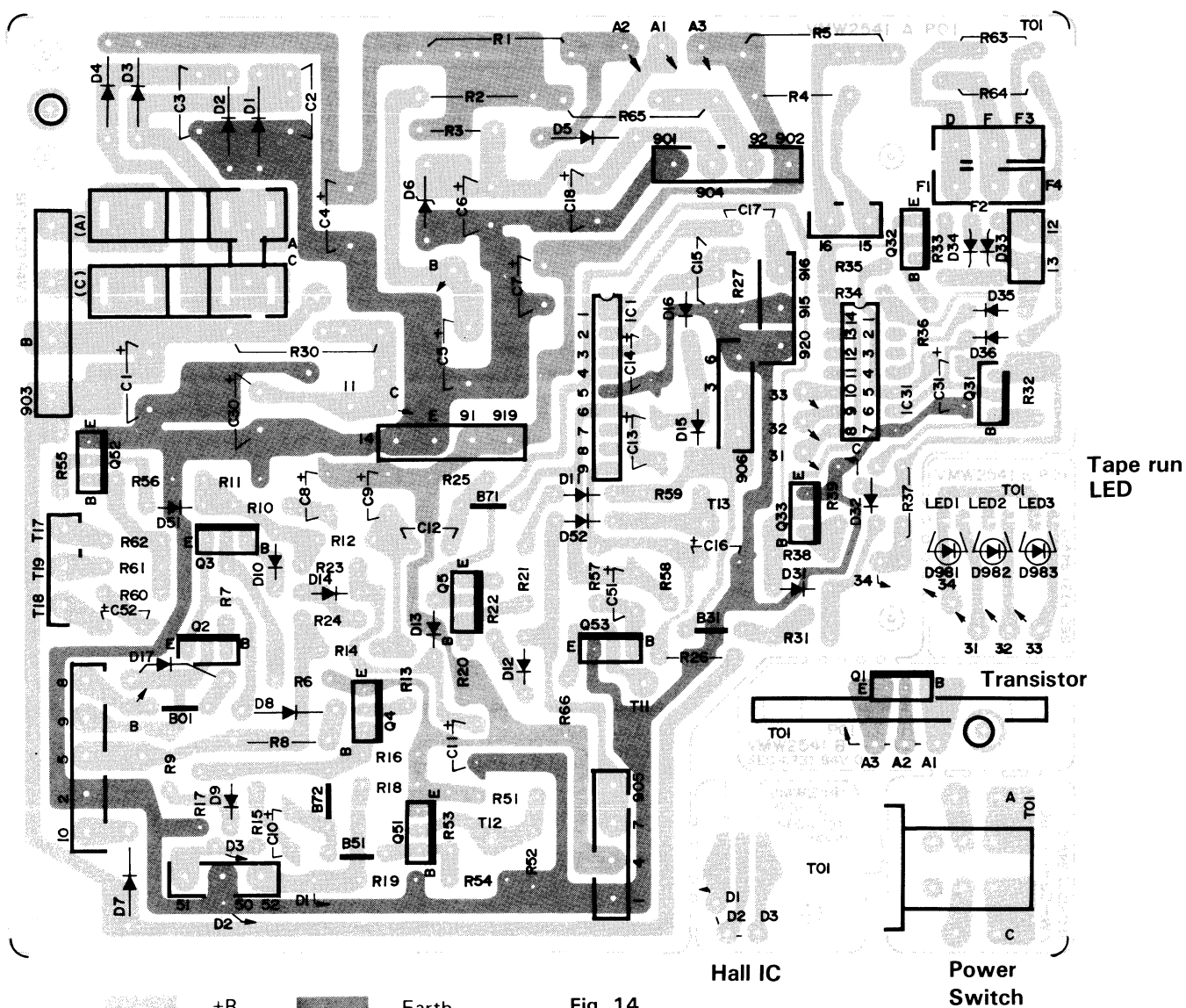


Fig. 14

Power Supply P.W. Board Parts List

△ parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

Ref. No.	△	Parts No.	Parts Name	Remarks	Q'ty
R1	△	VMW2541-***A	P.W. Board		1
R2		QRG019J-4R7	O.M.F. Resistor	4.7 Ω 1 W	1
R3		QRG019J-152	"	1.5 kΩ 1 W	1
R4		QRD129J-821S	C. Resistor	820 Ω 2 W	1
R5		QRD121J-122	"	1.2 kΩ 1/2W	1
		QRG019J-680	O.M.F. Resistor	68 Ω 1 W	1
R6,7		QRD161J-152	C. Resistor	1.5 kΩ 1/6 W	2
R8		QRD121J-2R2	"	2.2 Ω 1/2 W	1
R9		QRD161J-224	"	220 kΩ 1/6 W	1
R10,24,25		" -562	"	5.6 kΩ "	3
R11,14,35		" -563	"	56 kΩ "	3
R12,13,31,36		" -103	"	10 kΩ "	4
R15		" -682	"	6.8 kΩ "	1
R16		" -333	"	33 kΩ "	1
R17		QRD143J-225S	"	2.2 MΩ 1/4 W	1
R18		QRD161J-222	"	2.2 kΩ 1/6 W	1
R19		" -472	"	4.7 kΩ "	1
R20,21,23		" -223	"	22 kΩ "	3
R22		" -151	"	150 Ω "	1
R26		QRD147J-102S	"	1 kΩ 1/4 W	1
R27		QRD161J-224	"	220 kΩ 1/6 W	1
R30		QRD149J-121S	O.M.F. Resistor	120 Ω 2 W	1
R32		QRD161J-333	C. Resistor	33 kΩ 1/6 W	1
R33		" -473	"	47 kΩ "	1
R34		" -153	"	15 kΩ "	1
R37		QRD147J-152S	"	1.5 kΩ 1/4 W	1
C1	△	QET41ER-108	E. Capacitor		1
C2,3	△	QCF11HP-103	F.C. Capacitor		2
C4,5,6,7		QET41HR-477	E. Capacitor		4
C8		QET61ER-476	"		1
C9		QET61ER-336	"		1
C10,13		QET61HR-106	"		2
C11		QET61ER-107	"		1
C12		QEN41EM-226	N.P.E. Capacitor		1
C14		QET41HR-104N	E. Capacitor		1
C15		QFM41HJ-154	Mylar Capacitor		1
C16		QET61ER-476	E. Capacitor		1
C17		QFN31HJ-103	Mylar Capacitor		1
C18		QET41HR-227N	E. Capacitor		1
C30		QET41ER-477N	"		1
C31		QET41HR-106	"		1
IC1		LA2000	IC		1
IC31		IR2408	"		1
Q2		2SC1318(R,S)	Si. Transistor		1
Q3		2SC1685(R,S)PH	"		1
Q4,5,31		2SA564(R,S)	"		3
Q32		2SC1685(R,S)PH	"		1
D1 ~ 4,5,7,8	△	10E1-B	Si Diode		7
D6	△	RD20E(E3)	Zener Diode		1
D9 ~ 16, 31 ~ 36		1SS119-14TE	Si Diode	MA165-TA5	14
D17	△	10E1-B	"		1

Main Amp. P.W. Board Parts List

△ parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

Ref. No.	△	Parts No.	Parts Name	Remarks	Q'ty
R101,201,119 219,160,260 901		VMW1580-***A QRD161J-273	P.W. Board C. Resistor	27 kΩ 1/6 W	1 7
R102,202,127 227,146,246 149,249,907		" -332	"	3.3 kΩ "	9
R103,203,105 205,121,221 145,245,169 269,905,916		" -104	"	100 kΩ "	12
R104,204		" -184	"	180 kΩ "	2
R106,206,138 238		" -823	"	82 kΩ "	4
R107,207		" -121	"	120 Ω "	2
R108,208,172 272,173,273		" -105	"	1 MΩ "	6
R109,209,120 220,134,234 167,267,929		" -222	"	2.2 kΩ "	9
R110,210,170 270,171,271 906,911,913 931		" -103	"	10 kΩ "	10
R111,211,166 266		" -101	"	100 Ω "	4
R112,212,144 244		" -152	"	1.5 kΩ "	4
R113,213		" -224	"	220 kΩ "	2
R114,214,140 240		" -123	"	12 kΩ "	4
R115,215,163 263		" -223	"	220 kΩ "	4
R116,216,126 226,128,228 139,239,153 253,914,923		" -472	"	4.7 kΩ "	12
R117,217,910 912		" -562	"	5.6 kΩ "	4
R118,218		" -274	"	270 kΩ "	2
R129,229,130 230		" -682	"	6.8 kΩ "	4
R131,231,164 264,928		" -102	"	1 kΩ "	5
R132,232,159 259,908,909		" -683	"	68 kΩ "	6
R133,233		" -512	"	5.1 kΩ "	2
R135,235,157 257,922		" -473	"	47 kΩ "	5
R136,236,142 242		" -334	"	330 kΩ "	4
R137,237,143 243,148,248		" -394	"	390 kΩ "	6
R141,241		" -753	"	75 kΩ "	2
R147,247,162 262		" -124	"	120 kΩ "	4
R150,250		" -151	"	150 Ω "	2
R151,251,902		" -563	"	56 kΩ "	3
R152,252		" -153	"	15 kΩ "	2
R154,254		" -821	"	820 Ω "	2
R155,255		" -393	"	39 kΩ "	2
R156,256,158 258		" -333	"	33 kΩ "	4

Ref. No.	△	Parts No.	Parts Name	Remarks		Q'ty
R161,261		QRD143J-155S	C. Resistor	1.5 MΩ	1/6 W	2
R165,265		QRD161J-560	"	56 Ω	"	2
R168,268		" -154	"	150 kΩ	"	2
R915		" -6R8	"	6.8 Ω	"	1
R917		QRD121J-272	"	2.7 kΩ	1/2 W	1
R918		QRG019J-181	O.M.F. Resistor	180 Ω	1W	1
R919		" -680	"	68 Ω	"	1
R920		QRD129J-4R7	C. Resistor	4.7 Ω	1/2 W	1
R921		QRD149J-100S	"	10 Ω	1/4 W	1
R924		QRD121J-122	"	1.2 kΩ	1/2 W	1
R925		" -681	"	680 Ω	"	1
R926		QRG019J-680	O.M.F. Resistor	68 Ω	1 W	1
C100,200		QCS11HJ-331	F.C. Capacitor	330 pF	50 V	2
C101,201		" -361	"	360 pF	"	2
C102,202		" -131	"	130 pF	"	2
C103,203		" -201	"	200 pF	"	2
C104,204		QEB41EM-106	E. Capacitor (Low Leak)	10 μF	25 V	2
C105,205		QCS11HJ-471	F.C. Capacitor	470 pF	50 V	2
C106,206,108 208,143,243 154,254,906		QET41ERT-476	E. Capacitor	47 μF	25 V	9
C107,207		QCS11HJ-680	F.C. Capacitor	68 pF	50 V	2
C109,209		QET41ER-227N	E. Capacitor	220 μF	25 V	2
C110,210		QEB41EM-475	E. Capacitor (Low Leak)	4.7 μF	"	2
C111,211		QET41AR-107	E. Capacitor	100 μF	10 V	2
C112,212		QFN41HJ-822	M. Capacitor	0.0082 μF	50 V	2
C113,213		" -182	"	0.0018 μF	"	2
C114,214,123 223		" -103	"	0.01 μF	"	4
C115,215,116 216		QEB41HM-105	E. Capacitor (Low Leak)	1 μF	50 V	4
C117,217		QCS11HJ-470	F.C. Capacitor	47 pF	"	2
C118,218,121 221,124,224 133,233,904 905		QET41HR-106N	E. Capacitor	10 μF	"	10
C122,222,142 242		" -335N	"	3.3 μF	"	4
C125,225		QFN41HJ-473	M. Capacitor	0.047 μF	"	2
C127,227,134 234		" -472	"	0.0047 μF	"	4
C128,228,132 232,136,236		" -333	"	0.033 μF	"	6
C129,229		" -683	"	0.068 μF	"	2
C130,230,156 256		" -104	"	0.01 μF	"	4
C131,231		" -154	"	0.15 μF	"	2
C135,235		QEB41HM-224	E. Capacitor (Low Leak)	0.22 μF	"	2
C138,238,141 241,149,249 901,903		QET41HR-105	E. Capacitor	1 μF	"	8
C139,239		" -475N	"	4.7 μF	"	2
C140,240		QET41CR-227N	"	220 μF	16 V	2
C144,244		QET41HR-104N	"	0.1 μF	50 V	2
C145,245		QFN41HJ-122	M. Capacitor	0.0012 μF	"	2
C146,246,160 260		QFN41HJ-152	M. Capacitor	0.0015 μF	50 V	4
C147,247		QET41HR-105	E. Capacitor	1 μF	"	2
C148,248		QFN41HJ-124	M. Capacitor	0.12 μF	"	2
C150,250,909		" -153	"	0.015 μF	"	3
C151,251		" -392	"	0.0039 μF	"	2
C152,252		QCS11HJ-391	C. Capacitor	390 pF	"	2
C153,253		QCS12HJ-151	"	150 pF	500 V	2

Ref. No.	△	Parts No.	Parts Name	Remarks	Q'ty
C155,255		QCY12HK-221	C. Capacitor	220 pF 500 V	2
C157,257		QCS11HJ-151	"	150 pF 50 V	2
C158,258,910		QET41HR-474N	E. Capacitor	0.47 μF "	3
C159,259		QFN41HJ-102	M. Capacitor	0.001 μF "	2
C907		QET40JR-227N	E. Capacitor	220 μF 6.3 V	1
C908		QFP82AJ-103	P.P. Capacitor	0.01 μF 100 V	1
C911		QFP82XJ-152	"	0.0015 μF	1
C912		QFN41HJ-122	M. Capacitor	0.0012 μF 50 V	1
C914		QET41ER-336N	E. Capacitor	33 μF 25 V	1
CRB1,2		EXR-P472M393W	C.R. Block		2
VR101,201		QVP8A0B-054	V. Resistor	50 kΩ	2
VR102,202		" -024	"	20 kΩ	2
VR103,203,104		QVP4A0B-224	"	220 kΩ	4
204					
L101,201		VQZ0016-001	Filter		2
L102,202		VQZ0013-001	"		2
L103,203		VQP0001-332S	Inductor		2
L104,204,105		" -183S	"		4
205					
T901		VQH1009-018	OSC Coil		1
		VYH4514-002	Shield Case		1
IC101,201		NE652N	IC	Dolby	2
IC102,202		NE654N	"	"	2
IC901		AN6552	"		1
IC902	△	UPC78L15	"		1
Q101,201,102		2SC2634(T)	Si. Transistor		6
202,108,208					
Q103,203,106		2SC1685(R,S)PH	"		11
206,109,209					
110,210,901					
902,905					
Q107,207		2SC2001(L,K)	"		2
Q903,904		2SC2274(E,F)	"		2
D901,902		1SS119-14TE	Si. Diode	or MA165-TA5	7
904 ~ 908					
D903		RD6.8E(B3)	Zener Diode		1
S1		QSS9201-005R	Slide Switch	for REC/PB	1
S2,3		QST4242-V03	Push Switch	for NR	1
S4,5		" -V02	"	for EQ	1
		VMJ5006-003	Jack Ass'y	for MIC & H.P	1
		VMJ3004-102	PIN Jack Ass'y		1
CN901		QMV5005-005	Plug Ass'y		1

Other P.W. Board Parts

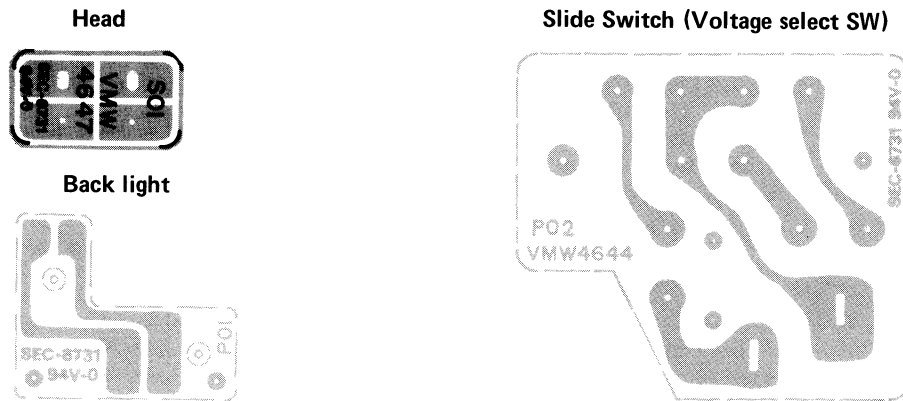


Fig. 15

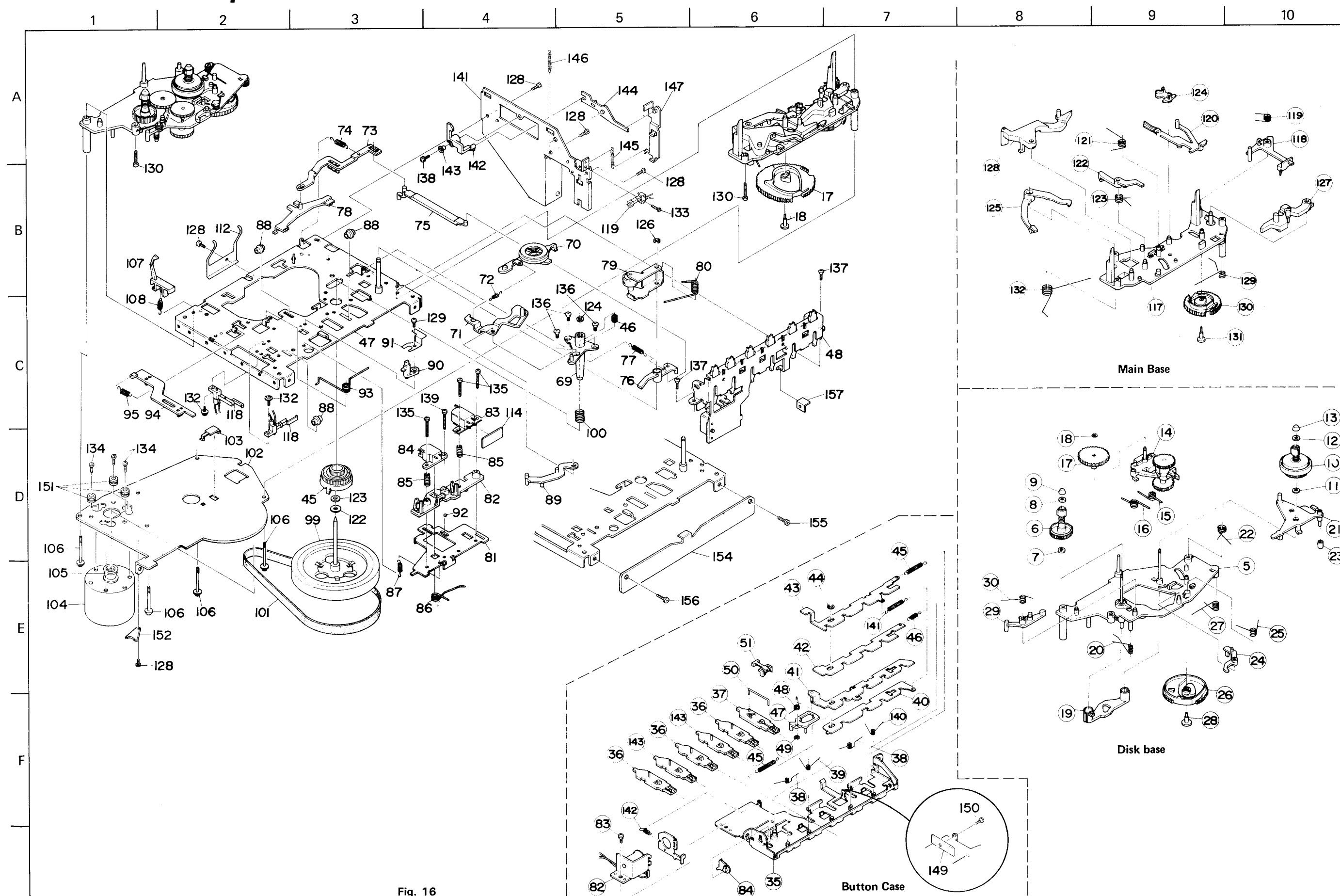
Other P.W. Board Parts List

△ parts are safety assurance parts.

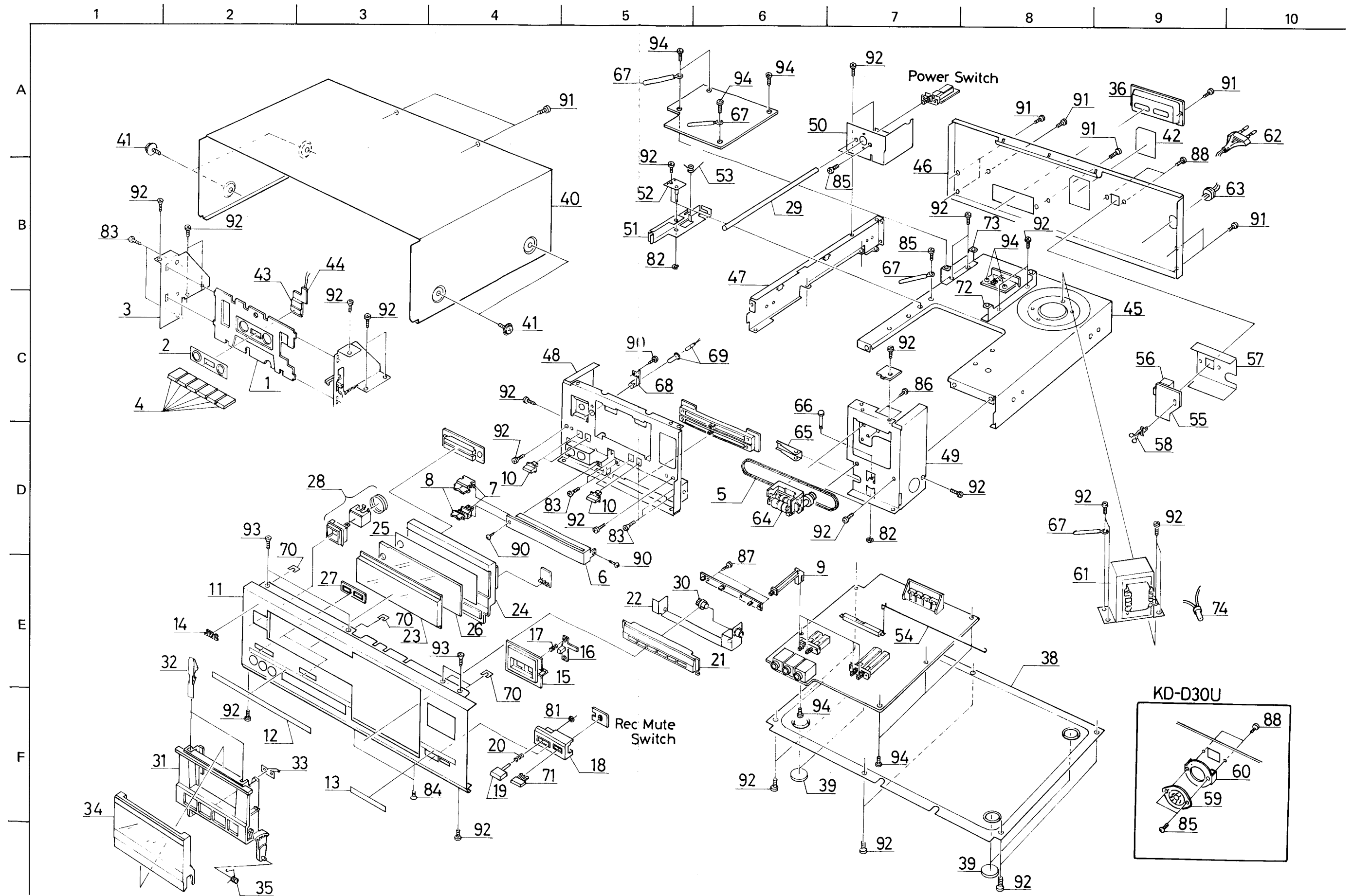
When replacing those parts, make sure to use the specified one.

Ref. No.	△	Parts No.	Parts Name	Remarks	Q'ty
(R/P Head)		VMW4647-001	P.W. Board	for R/P Head	1
(LED)		VMW4629-001 LD-702	P.W. Board LED		1 1
(Voltage select switch)		VMW4644-002	P.W. Board		1
S02	△	VKS4354-001	Wire Clamp		1
		QSS2325-203BS	Slide Switch	KD-D30B	1
		QSS2325-203	Slide Switch	KD-D30 A/C/E/J	1
		QSR0084-001	V. Select Switch	KD-D30U	1
	△	VMA4151-001	Insulator	for Voltage select switch	1
		VYSR106-007	Spacer		1
(Input Volume)		VMW1580-***B	P.W. Board		1
VR105,205		VMW1580-***C	"		1
		QVZ6201-001	V. Resistor		1
(Level Indicator)		LT-1062	L.E.D. Module		1
RA,RB		QRD161J-472	C. Resistor		2
CC,CD		QET41ER-106N	E. Capacitor		2
CA,CB		QET41HR-105N	"		2
CE		QET41ER-226N	"		1
(Indicator)		VMW1580-***D	P.W. Board		1
D961		GL-9PR92	L.E.D.	Red	1
D962,963		GL-9NG92	"	Green	1
(Rec Mute SW)		VMW1580-***E	P.W. Board		1
		QSP0301-002	Push Switch		1
(Power Transistor)		VMW2541-***B	P.W. Board		1
Q1	△	2SC1162(B,C)	Si. Transistor		1
		VKL5002-001	Heat Sink	for Q1	1
		DPSP3006Z	Screw	for Q1	1
(Hall IC)		VMW2541-***C	P.W. Board		1
		DN6835A	Hall IC		1
(Power Switch)		VMW2541-***D	P.W. Board		1
S01	△	QSP0219-061	Push Switch		1
(Tape run LED)		VMW2541-***E	P.W. Board		1
D981 ~ 982		GL-9PR92	L.E.D.	red	3

Mechanical Component Parts



Enclosure Assembly and Electrical Parts (Except P.W. Board Parts)



Mechanical Component Parts List

△ parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

Ref. No.	△	Parts No.	Parts Name	Remarks	Q'ty
1		VKS2115-001	Main Base		1
2		VKS4400-001	Pause Trigger		1
3		VKW3006-026	Spring	Pause Trigger	1
4		VKS4401-001	FF Lever		1
5		VKW3006-027	Spring	FF Lever	1
6		VKS4402-001	Play Trigger		1
7		VKW3006-028	Spring	Play Trigger	1
8		VKS4403-002	FR Safety		1
9		VKS4404-001	Rew Lever		1
10		VKW3006-029	Spring	Rew Lever	1
11		VKS4405-00A	Pause Arm Ass'y		1
12		VKS4483-00A	Play Arm Ass'y		1
13		VKW4333-001	Spring	Pause Cam	1
14		VKS3147-001	Pause Cam		1
15		VKS4410-002	Lock Bush	Pause Cam	1
16		VKW4334-001	Spring	Play Cam	1
17		VKS4411-002	Play Cam		1
18		VKS4410-002	Lock Bush	Play Cam	1
20		VKS2117-00A	Disk Base Ass'y		1
21		VKR4265-00A	Supply Reel Ass'y		1
22		VKZ4003-003	Felt	Back Tension	1
23		VKR4170-001	Ring		1
24		VKS4131-001	Reel Stopper		1
25		VKR4267-00A	Take-up Reel Ass'y		1
26		VKR4170-001	Ring		1
27		VKS4131-001	Reel Stopper		1
28		VKS3148-00A	FR Base Ass'y		1
29		VKW3006-031	Spring	FF	1
30		VKW3006-032	Spring	REW	1
31		VKR4271-001	Rew. Gear		1
32		VKZ4004-001	Special Washer	Rew Gear	1
33		VKS4413-001	FR Stopper		1
34		VKW3006-033	Spring	FR Base	1
35		VKS4414-00A	FR Arm Ass'y		1
36		VKW3006-034	Spring	FR Arm	1
37		VKH3000-045	Collar	"	1
38		VKS4416-002	FR Trigger		1
39		VKW3006-035	Spring	FR Trigger	1
40		VKS4417-001	FR Cam		1
41		VKW3006-036	Spring	FR Cam	1
42		VKS4410-002	Lock Bush		1
43		VKS4418-001	Return Lever		1
44		VKW3006-045	Spring	Return Spring	1
45		VKR4272-00A	FW. Gear Ass'y		1
46		VKR4276-001	Roller		1
47		VKL3352-00A	Chassis Base Ass'y		1
49		VKL3354-00A	Button Case Ass'y		1
50		VKS4420-00A	Button Ass'y		3
51		VKS4420-00C	"		2
52		VKS4493-00A	Pause Button Ass'y		1
53		VKW4345-002	Spring		1
54		" -001	"		1
55		VKW4326-001	"		2
56		VKL3355-002	Rec Cam		1
57		VKL5125-00A	Main Cam Ass'y		1
58		VKL3357-002	Sub Cam		1
59		VKL3358-001	Switch Cam		1
60		VKW3002-094	Tension Spring	Switch Cam ~ Main Cam	2
61		" -100	"	Switch Cam ~ Rec. Cam	1

Ref. No.	△	Parts No.	Parts Name	Remarks	Q'ty
62		VKW3002-095	Tension Spring	Sub Cam	1
63		VKS4422-001	Select Arm		1
64		VKW4340-001	Spring	Select Arm	1
65		VKW4327-002	Wire		1
66		VKS4423-001	Wire Stopper		1
69		VKF4115-00A	Capstan Metal Ass'y		1
70		VKS4424-00A	Take-up Idler Ass'y		1
71		VKS4427-001	Pause Arm		1
72		VKW3002-096	Tension Spring	Take-up	1
73		VKS4428-003	Brake Arm (1)		1
74		VKW3002-097	Tension Spring	Brake Arm (1)	1
75		VKS4429-001	Brake Lever		1
76		VKS4430-002	Brake Arm (2)		1
77		VKW3002-097	Tension Spring	Brake Arm (2)	1
78		VKS4431-002	Brake		1
79		VKP4121-00A	Pinch Roller Arm Ass'y		1
80		VKW4356-001	Pinch Roller Spring		1
81		VKL3359-002	Slide Base		1
82		VKS2119-001	Head Mount Base		1
83		VGH0421-003	R/P Head Ass'y		1
84		ZMM090430-0A	E Head Ass'y	R/P & E. Head	1
85		VKW3001-020	Compression Spring		2
86		VKW4342-002	Slide Base Spring		1
87		VKW3002-099	Tension Spring		1
88		VKS4432-002	Roller		3
89		VKS4433-001	Switch Arm		1
90		VKS4434-001	Cassette Guide		1
91		VKY4238-001	Spring Plate		1
92		T41615-004	Stell Ball		1
93		VKW4341-001	Spring	Slide Base	1
94		VKS4435-003	Rec Lever		1
95	△	VKW3002-011	Tension Spring		1
96		VGP0601-013	Solenoid Ass'y		1
97		VKW3002-043	Tension Spring		1
98		VKS4436-001	Rec Arm		1
99		VKF3120-00A	Flywheel Ass'y		1
100		VKW3001-010	Spring	Thrust	1
101		VKB3001-011	Belt	Capstan	1
102		VKL3402-001	F.M. Bracket		1
103		VKS4437-001	Thrust Plate		1
104	△	MMI-6A2LKUA	D.C. Motor		1
105		VKS4139-002	Motor Pulley		1
106		VKZ4014-001	Special Screw		4
107		VKS4438-002	Rec. Safety Arm		1
108		VKW3002-039	Tension Spring	Rec S. Arm	1
111		VKS4492-00A	Rec. Arm Ass'y		1
112		VKY4239-001	Pack Spring		1
113		VKS4490-001	Select Arm		1
114		VMW4647-001	Printed Wiring Board	for REC/PB Head	1
115		VKW3006-049	Spring		1
116		VKW4374-002	"		1
117		VKL3403-001	Switch Bracket		1
118		VSH1121-001	Leaf Switch		2
119		VSH1119-001	"		3
121		Q03093-838	Washer		1
122		" -627	"	Thrust	1
123		" -827	"	"	1
124		" -522	"	Oil Cut	1
125		REE1500	E. Ring	Select Arm x 1	2
126		REE2500	"	Rec. Arm Unit x 1	2
				Switch Cam x 1	
				Pinch Roller Ass'y x 1	

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
128		HPST2604Z	Screw	Solenoid Ass'y x 1 Pack Spring x 1, Side Bracket Ass'y x 3	5
129		HPST2606Z	"	Stell Ball	1
130		HPST2612Z	"	Main Base x 1 Disk Base x 1	2
132		SBSB2006Z	"	Leaf Switch	2
133		SDSP2006Z	"	"	3
134		VKZ4109-001	Motor Screw		3
135		SPSX2010N	"	R/P Head x 2 E. Head x 1	3
136		SSST2604Z	"	Capstan Metal Ass'y	3
137		SSST2605Z	"	Button Case	2
138		SPSP2612Z	"	Side Bracket Ass'y	1
139		SPSX2008N	Screw	E. Head	1
141		VKL3399-001	Side Bracket		1
142		VKS4488-001	Lock Arm		1
143		VKH3001-054	Flange Collar		1
144		VKS4487-001	Connecting Lever		1
145		VKW3002-063	Tension Spring	E. Button	1
146		" -034	"	E. Lever	1
147		VKS4480-001	Eject Button		1
148		VKH3000-053	Collar		1
149		VKL5256-002	Bracket		1
150		SPSK1425M	Screw		1
151		VKZ4130-001	Cushion Rubber		3
152		TFB345469-01	Rubber Stopper		1
154		VKL5295-001	Stopper		1
155		SSSP3004Z	Screw		1
156		SDSP3004Z	Screw		1
157		VKL5199-002	Plate		1

Enclosure Assembly and Electrical Parts List
(Except P.W. Board Parts)

△ parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

Ref. No.	△	Parts No.	Parts Name	Remarks	Q'ty
1		VJD3340-001	Mecha. Cover		1
2		VJD4437-003	Disk Plate		1
3		VKL5257-001	Mecha. Bracket (L)		1
4		VXP4240-001	Push Button	Mecha.	6
5		VKB3000-053	Belt	Tape counter	1
6		VJD3339-001	Blind		1
7		VKS3159-001	Volume Lever		2
8		VXS4072-001	Slide Knob		2
9		VKS3160-002	Remote Bar		4
10		VXP4234-001	Push Button		4
11 ~ 15 (18,21) 23 ~ 28		ZCKDD30Y-CBF	Front Plate Ass'y		1
11		VJC1236-002	Front Plate		1
12		VJD4593-001	Scale Plate		1
13		VJD4594-002	Plate		1
14		E69212-001	JVC Mark		1
15		VJD3342-001	Counter Escutcheon		1
16		VXP4241-001	Reset Knob		1
17		VKW3001-058	Compression Spring		1
18		VJD3357-001	Button Escutcheon		1
19		VXP4239-001	Push Button	Eject	1
20		VKW3001-063	Compression Spring		1
21		VJD3341-002	Button Case		1
22		VKL5262-00A	Door BKT. Ass'y		1
23		VJK3195-001	Finder		1
24		VJD2189-001	LED Escutcheon		1
25		VJD4595-002	LED Plate		1
26		VJD3198-001	Light Lens		1
27		VJD4592-001	Button Escutcheon		1
28		E69189-002	Push Knob Ass'y		1
29		VKS4003-011	Pipe		1
30		VYH4460-001	Gear		1
31		VJT2073-001	Cassette Door		1
32		VKY4273-001	Cassette Spring		2
33		VKY4252-002	"		1
34		VJT3089-001	Cassette Lid		1
35		VKW4365-002	Holder Spring		1
36		VJD3311-001	Jack Escutcheon		1
38		VJC2075-001	Bottom Cover		1
39		VJF4003-002	Foot		4
40		VJC2076-001	Top Cover		1
41		VKZ3001-002	Special Screw		4
42		VYN2100-002PA	Name Plate	KD-D30B	1
		" -003PA	"	KD-D30A	1
		" -004PA	"	KD-D30C, -004PK	1
		" -005PA	"	KD-D30E	1
		" -006PA	"	KD-D30J	1
		" -007PA	"	KD-D30U	1
43		LD-702	LED		1
44		VMW4629-001	P.W. Board		1
45		VKL127-001	Amp. Chassis		1
46		VJC2074-002	Rear Panel		1
47		VKL3383-001	Angle		1
48		VKL2160-003	Front Bracket (L)		1
49		VKL3384-002	" (R)		1
50		VKL3387-001	Power Bracket		1
51		VKL3395-001	Rec. Arm		1
52		VKL5260-00A	Rec. Bracket Ass'y		1
53		VKW4363-001	Spring		1
54		VKW4364-002	Rec. Wire		1

Ref. No.	△	Parts No.	Parts Name	Remarks	Q'ty
55		VMW4644-001	P.W. Board	Voltage Select SW KD-D30A/B/C/E/J	1
56	△	QSS2325-203BS	Slide Switch	KD-D30B	1
	△	" -203	"	KD-D30A/C/E/J	1
57	△	VMA4151-001	Insulator	for V.S. Switch	1
58		VKS4354-001	Wire Clamp		1
59	△	QSR0084-001	V. Select Switch	KD-D30U	1
60	△	VKL4275-001	Bracket	"	1
61	△	VTP54C3-031BBS	Power Transformer	KD-D30B	1
	△	" -031A	"	KD-D30A/E	1
	△	" -032B	"	KD-D30C/J	1
	△	VTP54U3-031B	"	KD-D30U	1
62	△	QMP9017-008BS	Power Cord	KD-D30B	1
	△	QMP2560-200	"	KD-D30A	1
	△	QMP1200-200	"	KD-D30C/J	1
	△	QMP3900-200	"	KD-D30E	1
	△	QMP7600-200	"	KD-D30U	1
63	△	QHS3876-162BS	Strain Relief	KD-D30B	1
	△	" -162	"	KD-D30A/C/E/J/U	1
64		VKC5160-001T	Tape Counter		1
65		VKL5258-001	Eject Lever		1
66		VKH4387-001	Shaft		1
67		VKZ4001-011	Wire Holder		5
68		VKL5276-001	Lamp Holder		1
69	△	VGZ0001-006	Lamp Ass'y		1
70		T47818-002	Spacer		4
71		VXP4258-001	Push Button	Rec. Mute	1
72		VKL5268-001	Bracket (A)		1
73		VKL5269-001	Bracket (B)		1
74		TAW000504-01	Connector	KD-D30U	2
81		REE2500	E Ring	Eject Escutcheon	1
82		REE3000	"	Rec. Bracket x 1	2
				Eject Lever x 1	
83		LPSP2604Z	Screw	Input Vol. P.W.B.	4
84		SSSP2604Z	"	Door Bracket Ass'y	2
85		LPSP3006Z	"	Power Switch P.W.B. x 2 V. Select SW x 2 (KD-D30U)	4
86		SDSF2606Z	"	Tape Counter	2
87		SDSF2608Z	"	P.W.B.	3
88		SDSP3006R	"	V. Select Switch	2
89		SDST2604Z	"	Mecha. Bracket	2
90		SDST2606Z	"	Blind x 2 Lamp holder x 1	3
91		SDST3006R	"	Jack Escutcheon x 1 Rear Panel x 3 Angle x 2 Power Bracket x 1 Top Cover x 2	9
92		SDST3006Z	"	Mecha. x 6 Hall IC x 1 Front Plate x 2 Bottom Cover x 6 Front Bracket (L) x 3 Front Bracket (R) x 3 Power Bracket x 1 Rec. Bracket x 1 Power Transformer x 4 P.W.B. x 3 Wire Holder x 2	32
93		SSST3006Z	"	Front Plate	3
94		SDST3008Z	Screw	Main P.W.B. x 5 Power Supply x 4 Transistor x 2	11

Packing

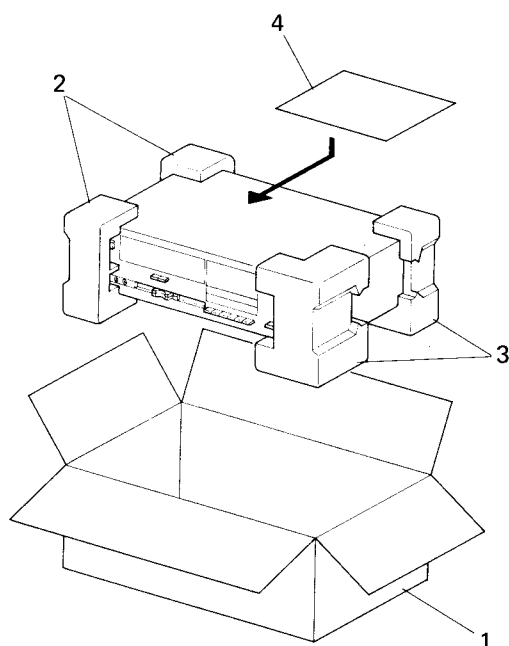


Fig. 18

Positions of controls and switch knobs at renew packing

Power switch	: OFF
NR system SWs	: OFF
Tape select SWs	: SF/NORM
Rec level controls	: MIN
Counter	: 000
Mecha. operation buttons	: OFF
Eject	: OFF
Rec Mute SW	: OFF

Packing Material Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	VPD2100-J02	Carton	KD-D30B	1
	" -J03	"	KD-D30A	1
	" -J04	"	KD-D30C	1
	" -J05	"	KD-D30E	1
	" -J06	"	KD-D30J	1
	" -J07	"	KD-D30U	1
2	VPH3111-001	Cushion	Left	1
3	VPH3112-001	"	Right	1
	Q04141H	Wire Clamp	for Power Cord	1
	TKS000501-08	Sheet	for Unit	1
	VPE4002-005	Poly Bag	for Unit KD-D30B	1
	QPGA060-06005	Envelope	for Unit KD-D30A/C/E/J/U	1
4	AP4056A-36	Poly Bag	for PIN Cord	1
	VPE4002-004	"	for Inst. Book KD-D30B	1
	AP4056B-077	Envelope	for Inst. Book KD-D30A/C/E/J/U	1

Accessories

△ parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

Parts No.	△	Parts Name	Remarks	Q'ty
VMP0002-00B		Pin Cord		2
VNN0095-901		Instruction Book	KD-D30A/C/J/U	1
" -301		"	KD-D30B/E	1
BT20013C		Guarantee Certificate	KD-D30B	1
BT20029B		Warranty Card	KD-D30A	1
BT20025E		"	KD-D30C	1
BT20047		"	KD-D30U/J	1
TJL000443-01		Seal	KD-D30B (Made in Japan)	1
VNC5004-001		BEAB Label	KD-D30B	1
TLT052401-01		Mark Sticker	KD-D30B/E	1
		Warning Label	KD-D30A/B/E for Dis Connection	1
QZL1002-003BS		"	KD-D30B for 2 Pin Power Cord	1
T44362-001		CSA Marker	KD-D30C	1
E66416-003		Envelope	KD-D30J for Warranty Card	1
BT20046A		Special Relay Card	KD-D30J	1
BT20046		"	KD-D30U	1
BT20044D		Safety Instruction	KD-D30J	1
TLT000505-01		UL/CSA Caution Label	"	2
E7795-1		EP Mark	KD-D30U	1
VNC5311-101		Caution Card	KD-D30U	1
V04062-001	△	Siemens Plug	"	1
T46328-001		Caution Label	"	1
VND4037-001		F. Mark Label	KD-D30E	1